







Thank you for purchasing KOSO RX2NR, before operating the unit, please read the instruction thoroughly and retain it for the future reference.

### ∧ Notice

- 1. Power supply: battery (9V-1604, 6LR61.)
- 2. For installation, please follow the steps described in manual. Any damage caused by wrong installation shall be imputed to the users.
- 3. Don't break or modify the wire terminal. To avoid the short circuit, please don't pull the wire when installing.
- 4. Do not disassemble or change any parts excluding the manual description.
- 5. The interior examination or maintenance should be executed by our professionals.

### MARK MEANING:

NOTE You could get the installation details from the information behind the mark

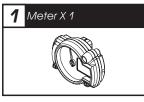
♠ Some processes must be followed to avoid the affection caused by wrong installation

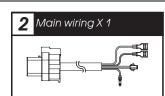
MARNING! Some processes must be followed to avoid damages to yourself or the public.

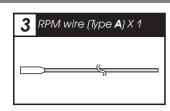


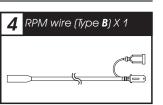


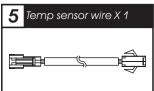
### 1-1 Accessory

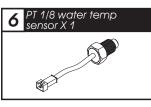


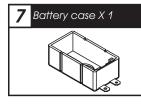


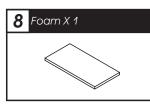


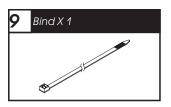


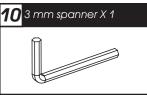


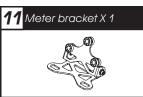


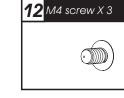


















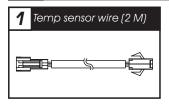


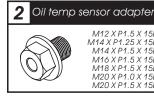


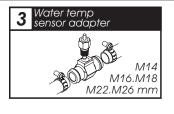


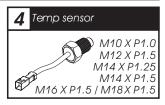
## Please contact the local distributor if the items you open are not the same, with the above-listed one.

### **1-2** Option accessory







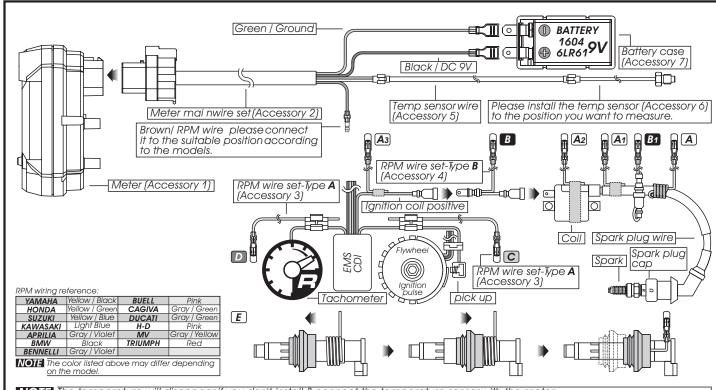






NOTE Some of the option accessories may not sell. For the details, please contact the local distributor.

## 2-1 Wiring installation instructions



NOTE The temperature will disappear if you don't install & connect the temperature sensor with the meter.

- The RPM wire installation

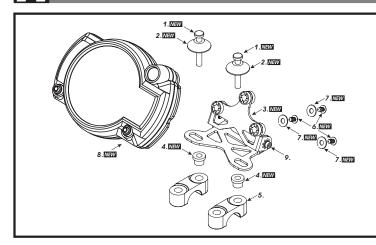
  A. Please wrap the RPM wire at least 5 times around the spark plug.
  - A1. Please use tape to fix the RPM (Type A) wire onto the spark plug wire.
  - **A2.** Please use tape to fix the RPM wire (Type **A**) on the spark plug cap.
  - A3. Please use tape to fix the RPM wire (Type A) on the coil positive pole wire. For some models with the coil negative wire, please tape the RPM wire (Type A) on the negative wire to get the RPM signal. (For example, the YAMAHA V-max 1200)

    B. Please connect the RPM wire (Type B) to connect to the ignition coil positive pole.
- B1. Please wrap the RPM wire (type B) of the spark plugwire by connecting the male and female connector.
  C. Please connect the RPM wire (Type A) to the pick up.
  D. Please parallel the RPM wire (Type A) with the original tachometer signal wire (This method is available only when the original speedometer comes with a tachometer on it. You could get the RPM wire information from the service manual of your bikes.)
- E. For the models comes with the new ignition coil, please wrap the RPM wire (Type A) at least 5 times around the spark plug as the

For multi-ignition models, we will suggest you to get the signal on the first ignition.

The best signal source will be in order as D>C>B>A, we will suggest you to check different ways if you have problems to get the

## **2-2** Installation instructions



### When installing, please follow the process

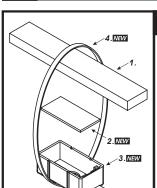
- 1.M6 or M8 screw X 2 (Accessory 14.15)
- 2.M6 or M8 aluminum screw washer X 2 (Accessory 16.17) 3. Bracket (Accessory 11)
- 4.M6 or M8 bushing X2 (Accessory 18.19) 5.Handle bar bracket

### **NOTE** You could also install it (Meter bracket) on the original meter bracket.

- 6.M5 screw X 3 (Accessory 12) 7.M5 washer X 3 (Accessory 13)
- 8.Meter (Accessory 1) 9.Meter bracket micro-adjustment screw
- **NOTE** You could choose the angle first and then use the screw to fix the angle.

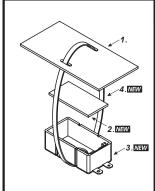
**NOTE** The handle bar bracket screw and screw hole will differ depending on different model. We suggest you to use the additional assembly (Item 1.2.4) to fit it.

### **2-3** The instruction of battery box fix to the bike frame 2-4 The instruction of battery box fix to the bike case



# When installing, please follow the process

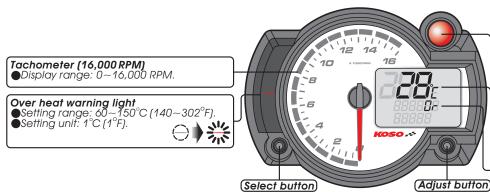
- . Rike Frame
- 2. Please put the foam on the top of the battery box.
- 3. Battery box put the battery box on
- 4. Belt tie the battery box to the bike frame via belt.



# When installing, please follow the process

- 1. Bike case drill two hole (3 X 10 mm on the bike case.
- 2. Please put the foam on the top of the battery box.
- 3. Battery box put the battery box on sponge
- 4. Belt tie the battery box to the bike frame via belt.

# 3-1 Overview



The RPM shift light

Setting range:5,000~16,000 RPM.
Setting unit:100 RPM.

Pre-shift light

Setting range:-500~-5,000 RPM. Setting unit: 100 RPM.



Thermometer

Display range: 0~150°C (32~302°F).
 Display unit: 1°C (1°F).

The Digital tachometer

Display range:0~16,000 RPM. Display range: 100 RPM.

# **3-2** Function, setting instruction

■Needle tachometer	Display range: 0~16,000 RPM
<ul><li>Digital tachometer</li></ul>	Display range: 0~16,000 RPM
	Display unit: 100 RPM
ODisplay internal	<0.5 second
○Shift light	Setting range: 5,000~16,000 RPM
	Setting unit: 100 RPM
OPre-Shift light	Setting range: -500~-5,000 RPM
	Setting unit: 100 RPM
OStroke / piston setting	2 Stroke: 1, 2, 3, 4 pistons
	4 Stroke: 1, 2, 3, 4, 5, 6, 8, 10, 12 pistor

Display range: 0~150°C (0~302°F) Thermometer Display unit:  $0.1^{\circ}C$   $(0.1^{\circ}F)$ 

< 0.5 second ODisplay internal

Setting range: 60~150°C (140~302°F) Over heat warning light Setting unit: 1°C (1°F)

9V-1604, 6LR61 Battery type

●Effective temperature range -10~+60°C

Meter standard JIS D 0203S2

Meter size 135.7 X 100.7 X 52 mm

Meter weigh Around 240 g

NOTE Design and specification are subject to change without notice!

### 4-1 Adjust button function instruction



Press Adjust button one time to switch the



# **4-2** Cycle / Piston / Input signal setting



In the main screen, press down the Select & Adjust button together for 3 seconds to enter he setting screen.



**NOTE** You could set the stroke as 2 stroke or 4 stroke.

↑ The digit you could set is flashing now.

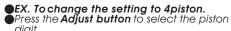
### **⚠** CAUTION!

- Make sure the correct strokes and pistons before setting
   Make sure the input is correct, or the RPM output will be
- incorrect.

  We define the engine with the ignition system ignites every 360 degree as 2-stroke and the engine with the ignition system ignites every 720 degree as 4-stroke.

  Some 4-stroke bikes with one single piston are igniting every 360 degree once, so the setting should be the same as the bike with 2-stroke and one piston engine.

- Press the **Select button** to enter the piston setting screen.
- ●EX. Now the setting is changed from 2 cycle to 4 cycle.



digit.

EX. Now the setting is 1P (1 piston).

NOTE

2 Cycle: 1,2,3,4 pistons

4 Cycle: 1,2,3,4,5,6,8,10,12 pistons

↑ The digit you could set is flashing now.



- Press the Select button to enter the signal input setting screen.
- EX. Now the piston setting is changed from 1 P (Piston) to 4 P (Pistons)



●EX. To change the setting to Lo.

(The negative impulse)
Press the Adjust button to choose the input sianal you want to set

lacktriangleEX. Now the setting is Hi (The positive impulse) NOTE The input signal setting range is between hight (The positive signal) & low (The negative signal)

<u>Now the input signal setting is flashing!</u>

**NOTE** If the tachometer can't detect the signal (No RPM is displayed on the screen), vou could choose another setting, and check it again.

●Press the **Select button** to enter the shift light settina screen

●EX. Now the input signal is changed from high to low.



- EX. The shift light set on 9,500 RPM. Press the **Select button** to move to the digit you want to set.

●EX. Now the RPM shift light setting is 9,000 RPM



↑ The digit you could set is flashing now.



f you set the RPM shift light at 9,500 RPM, the yellow light (Pre-shift light) will light on at 8,000 RPM. And the red light (Shift light) will light on when it reaches 9,500 RPM.



Press the Adjust button to change the setting



NOTE Setting range: 5,000~16,000 RPM Setting unit:100 RPM •



- Press the Select button to enter the pre-shift
- light setting screen.

  EX. Now the shift light setting is changed from 9,000 RPM to 9,500 RPM.





- Press the Adjust button to change the setting
- NOTE Setting range: -500~-5,000 RPM. Setting unit: 100 RPM.



● Press the **Select button** to enter the over heat

warning light setting screen.

EX. Now the pre-shift light setting is changed from 1,000 RPM to 1,500 RPM.



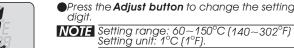
●EX. The over heat warning set on 105°C.

Press the Select button to move to the digit you want to set.

●EX. Now the over heatwarning setting is 100.0°C.







↑ The digit you could set is flashing now.

<u>↑</u> The setting unit will change together with the temperature unit setting.



- Press the Select button to back the main screen
- ●EX. Now the setting is changed from 100°C to 105°C.
- Main screen.



appear or appear

ncorrectly.

The following situation do not indicate malfunction of the meter. Please check the following before taking it in for repair.

i i Gubie	Check helli
The meter doesn't work when the power is on.	<ul> <li>The power doesn't supply to the meter.</li> <li>→Please make sure the wiring is connected. The wiring and fuse are not broken.</li> <li>→The battery is broken or the battery is too.</li> </ul>
	→Please make sure the wiring is connected. The wiring and fuse are n broken.

- old to supply enough power (DC 9 V) to make the meter work.

  The meter shows wrong Please check the voltage of your
- information. battery, and make sure the voltage is over DC 9 V. Tachometer does not Please check the RPM sensor wiring is

connected correctly.

# Temp does not appear or appear incorrectly.

### Check item Please check the spark plug is R type or not. If not, please replace the spark

plug with the **R** type spark plug. Please check your setting.

→Please refer to the manual **4-2**. ●Please check the sensor.

→Does the wiring break or falling off?

if still can't solve the problems according to the steps above, please contact with distributors or us.